

CITY: Bloomfield Hills
STATE: MI
COUNTRY: US
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/671,525B
FILING DATE: June 27, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Smith, Deann F.
REGISTRATION NUMBER: 36683
REFERENCE/DOCKET NUMBER: 2115-000853DVB
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810)641-1600
TELEFAX: (810)641-0270
INFORMATION FOR SEQ. ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-671-525B-8

Query Match 100.0%; Score 92; DB 1; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTTFYALQYHNIMTV 17
Db 147 RYFTTFYALQYHNIMTV 163

RESULT 3
US-08-672-109B-8
Sequence 8, Application US/08672109B
Patent No. 5710265
GENERAL INFORMATION:
APPLICANT: Yamada, Tadataka
APPLICANT: Gantz, Ira
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
STREET: P.O. Box 828
CITY: Bloomfield Hills
STATE: MI
COUNTRY: US
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/672,109B
FILING DATE: June 27, 1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Smith, Deann F.
REGISTRATION NUMBER: 36683
REFERENCE/DOCKET NUMBER: 2115-000853DVC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810)641-1600
TELEFAX: (810)641-0270
INFORMATION FOR SEQ. ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-672-109B-8

Query Match 100.0%; Score 92; DB 1; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTTFYALQYHNIMTV 17
Db 147 RYFTTFYALQYHNIMTV 163

RESULT 4
US-08-842-045-8
Sequence 8, Application US/08842045
Patent No. 581787
GENERAL INFORMATION:
APPLICANT: Yamada, Tadataka
APPLICANT: Gantz, Ira
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
STREET: P.O. Box 828
CITY: Bloomfield Hills
STATE: MI
COUNTRY: US
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/842,045
FILING DATE:
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Smith, Deann F.
REGISTRATION NUMBER: 36683
REFERENCE/DOCKET NUMBER: 2115-000853DVE
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810)641-1600
TELEFAX: (810)641-0270
INFORMATION FOR SEQ. ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-842-045-8

Query Match 100.0%; Score 92; DB 2; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTTFYALQYHNIMTV 17
Db 147 RYFTTFYALQYHNIMTV 163

RESULT 5
US-08-842-238-8
Sequence 8, Application US/08842238
Patent No. 5869257
GENERAL INFORMATION:
APPLICANT: Yamada, Tadataka
APPLICANT: Gantz, Ira
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.

STREET: P.O. Box 828
CITY: Bloomfield Hills
STATE: MI
COUNTRY: US
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/842,238
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Smith, Deann F.
REGISTRATION NUMBER: 36683
REFERENCE/DOCKET NUMBER: 2115-000853DVD
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810)641-1600
TELEFAX: (810)641-0270
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-842-238-8

Query Match 100.0%; Score 92; DB 2; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17
Db 147 RYFTIFYALQYHNIMTV 163

RESULT 6
US-08-662-560-2
Sequence 2, Application US/08662560
Patent No. 5908609
GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huszar, Dennis
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS
TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036/2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/662,560
FILING DATE: 10-JUN-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-060
TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-790-9090
TELEFAX: 212-869-8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-08-662-560-2

Query Match 100.0%; Score 92; DB 2; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17
Db 147 RYFTIFYALQYHNIMTV 163

RESULT 7
US-08-780-749A-2
Sequence 2, Application US/08780749A
Patent No. 5932779
GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huszar, Dennis
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS
TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036/2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/780,749A
FILING DATE: 08-JAN-1997
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Laura A. Coruzzi
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-780-749A-2

Query Match 100.0%; Score 92; DB 2; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17
Db 147 RYFTIFYALQYHNIMTV 163

RESULT 8
US-08-780-749A-6
Sequence 6, Application US/08780749A
Patent No. 5932779
GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huszar, Dennis
APPLICANT: Gu, Wei
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS
USEFUL IN THE REGULATION OF BODY WEIGHT
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036/2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/780,749A
FILING DATE: 08-JAN-1997
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Laura A. Coruzzi
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-780-749A-6

Query Match 100.0%; Score 92; DB 2; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTTFYALQYHNIMTV 17
Db 147 RYFTTFYALQYHNIMTV 163

RESULT 9
US-08-706-281A-16
Sequence 16, Application US/08706281A
Patent No. 6100048
GENERAL INFORMATION:
APPLICANT: Cone, Roger D
APPLICANT: Fan, Wei
APPLICANT: Boston, Bruce A
APPLICANT: Keesterton, Robert A
APPLICANT: Lu, Dongxi
APPLICANT: Chen, Wendiao
TITLE OF INVENTION: Methods and Reagents for Discovering and
TITLE OF INVENTION: Using Mammalian Melanocortin Receptor Agonists and Antagonists
TITLE OF INVENTION: To Modulate Feeding Behavior in Animals
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive

CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/706,281A
FILING DATE: 04-SEP-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: No. 6100048nan, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 96,886
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
TELEFAX: 312-913-0002
TELEX:
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-706-281A-16

Query Match 100.0%; Score 92; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTTFYALQYHNIMTV 17
Db 147 RYFTTFYALQYHNIMTV 163

RESULT 10
US-08-629-335B-8
Sequence 8, Application US/08629335B
Patent No. 6117975
GENERAL INFORMATION:
APPLICANT: Yamada, Tadataka
APPLICANT: Gantz, Ira
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
STREET: P.O. Box 828
CITY: Bloomfield Hills
STATE: MI
COUNTRY: US
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/629,335B
FILING DATE: July 23, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Smith, Dean F.
REGISTRATION NUMBER: 36683
REFERENCE/DOCKET NUMBER: 2115-000853DVA
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810)641-1600
TELEFAX: (810)641-0270
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-629-335B-8

Query Match 100.0%; Score 92; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFALQYHNIMTV 17
DB 147 RYFTIFALQYHNIMTV 163

RESULT 11
US-09-097-231-16
Sequence 16, Application US/09097231
Patent No. 6278038

GENERAL INFORMATION:
APPLICANT: Cone, Roger D
Chen, Wenbiao
Low, Malcolm J
TITLE OF INVENTION: Mammalian Melanocortin Receptor and Uses
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/097,231
FILING DATE: 12-Jun-1998
CLASSIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:
NAME: No. 6278038nan, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 96,886-C
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
TELEFAX: 312-913-0002
TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-097-231-16

Query Match 100.0%; Score 92; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFALQYHNIMTV 17
DB 147 RYFTIFALQYHNIMTV 163

RESULT 12
US-08-870-511-2
Sequence 2, Application US/08870511
Patent No. 6287763
GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huzar, Dennis

APPLICANT: Gu, Wei
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
TITLE OF INVENTION: REGULATION OF BODY WEIGHT
FILE REFERENCE: 7853-083
CURRENT APPLICATION NUMBER: US/08/870,511
CURRENT FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 45
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2
LENGTH: 332
TYPE: PRT
ORGANISM: Homo sapiens
US-08-870-511-2

Query Match 100.0%; Score 92; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFALQYHNIMTV 17
DB 147 RYFTIFALQYHNIMTV 163

RESULT 13
US-08-870-511-6
Sequence 6, Application US/08870511
Patent No. 6287763

GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huzar, Dennis
APPLICANT: Gu, Wei
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
TITLE OF INVENTION: REGULATION OF BODY WEIGHT
FILE REFERENCE: 7853-083
CURRENT APPLICATION NUMBER: US/08/870,511
CURRENT FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 45
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 6
LENGTH: 332
TYPE: PRT
ORGANISM: Homo sapiens
US-08-870-511-6

Query Match 100.0%; Score 92; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFALQYHNIMTV 17
DB 147 RYFTIFALQYHNIMTV 163

RESULT 14
US-08-870-511-8
Sequence 8, Application US/08870511
Patent No. 6287763

GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huzar, Dennis
APPLICANT: Gu, Wei
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
TITLE OF INVENTION: REGULATION OF BODY WEIGHT
FILE REFERENCE: 7853-083
CURRENT APPLICATION NUMBER: US/08/870,511
CURRENT FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 45
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 8
LENGTH: 332
TYPE: PRT
ORGANISM: Homo sapiens
US-08-870-511-8

Query Match 100.0%; Score 92; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17
|||||
Db 147 RYFTIFYALQYHNIMTV 163

RESULT 15

US-08-870-511-10
; Sequence 10; Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
; APPLICANT: Lee, Frank
; APPLICANT: Husezat, Dennis
; APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
; TITLE OF INVENTION: REGULATION OF BODY WEIGHT
; FILE REFERENCE: 7853-083
; CURRENT APPLICATION NUMBER: US/08/870,511
; CURRENT FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-870-511-10

Query Match 100.0%; Score 92; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17
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Db 147 RYFTIFYALQYHNIMTV 163

Search completed: January 3, 2005, 18:07:20
Job time : 22.5636 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 3, 2005, 18:03:38 ; Search time 79.1273 Seconds
(without alignments)
77.285 Million cell updates/sec

Title: US-09-884-211b-4_COPY_147_163

Perfect score: 92
Sequence: 1 RYFTIFYALQYHNIMTV 17

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1599051 seqs, 359727711 residues

Total number of hits satisfying chosen parameters: 1599051

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubppaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/2/pubppaa/PCT_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	92	100.0	248 17 US-10-834-485-4	Sequence 4, Appl1
2	92	100.0	248 17 US-10-816-304-4	Sequence 4, Appl1
3	92	100.0	293 14 US-10-207-330-8	Sequence 8, Appl1
4	92	100.0	311 17 US-10-834-485-3	Sequence 3, Appl1
5	92	100.0	311 17 US-10-816-304-3	Sequence 3, Appl1
6	92	100.0	332 10 US-09-876-252-74	Sequence 74, Appl1
7	92	100.0	332 10 US-09-876-252-136	Sequence 136, App
8	92	100.0	332 10 US-09-884-211a-3	Sequence 3, Appl1
9	92	100.0	332 10 US-09-884-211a-4	Sequence 4, Appl1
10	92	100.0	332 10 US-09-910-180-2	Sequence 2, Appl1
11	92	100.0	332 14 US-10-226-594-4	Sequence 4, Appl1
12	92	100.0	332 14 US-10-207-330-9	Sequence 9, Appl1
13	92	100.0	332 14 US-10-288-160-16	Sequence 16, Appl1

14	92	100.0	332 14 US-10-074-754-2	Sequence 2, Appl1
15	92	100.0	332 14 US-10-225-567A-158	Sequence 158, App
16	92	100.0	332 14 US-10-373-355-2	Sequence 27, Appl1
17	92	100.0	332 14 US-10-318-661-27	Sequence 2, Appl1
18	92	100.0	332 14 US-10-413-752-2	Sequence 6, Appl1
19	92	100.0	332 14 US-10-413-752-6	Sequence 74, Appl1
20	92	100.0	332 14 US-10-417-820A-74	Sequence 136, App
21	92	100.0	332 14 US-10-417-820A-136	Sequence 74, Appl1
22	92	100.0	332 16 US-10-723-955-74	Sequence 136, App
23	92	100.0	332 16 US-10-723-955-136	Sequence 136, Appl1
24	83	90.2	332 14 US-10-207-330-6	Sequence 2, Appl1
25	76	82.6	333 9 US-09-903-395-2	Sequence 523, App
26	76	82.6	333 10 US-09-826-509-523	Sequence 12, Appl1
27	76	82.6	333 14 US-10-288-160-12	Sequence 2, Appl1
28	76	82.6	335 14 US-10-256-089-2	Sequence 3, Appl1
29	76	82.6	360 14 US-10-226-594-3	Sequence 156, App
30	76	82.6	360 14 US-10-225-567A-156	Sequence 1, Appl1
31	76	82.6	360 14 US-10-413-752-1	Sequence 18, Appl1
32	73	79.3	325 14 US-10-288-160-18	Sequence 16, App
33	72	78.3	325 13 US-10-052-545-16	Sequence 160, App
34	72	78.3	335 14 US-10-225-567A-160	Sequence 40, Appl1
35	72	78.3	325 14 US-10-369-022-40	Sequence 2, Appl1
36	71	77.2	297 14 US-10-151-431-6	Sequence 10, Appl1
37	69	75.0	296 13 US-10-015-948-2	Sequence 1128, Ap
38	69	75.0	297 14 US-10-288-160-10	Sequence 12, Appl1
39	66	71.7	30 15 US-10-296-734-1128	Sequence 4, Appl1
40	66	71.7	124 13 US-10-052-545-12	Sequence 2, Appl1
41	66	71.7	315 14 US-10-288-160-4	Sequence 2, Appl1
42	66	71.7	317 13 US-10-052-545-2	Sequence 1, Appl1
43	66	71.7	317 14 US-10-226-594-1	Sequence 6, Appl1
44	66	71.7	317 14 US-10-288-160-6	Sequence 162, App
45	66	71.7	317 14 US-10-225-567A-162	

ALIGNMENTS

RESULT 1
US-10-834-485-4
; Sequence 4, Application US/10834485
; Publication No. US20040235030A1
; GENERAL INFORMATION:
; APPLICANT: Rothschild, Max F.
; APPLICANT: Larsen, Neils
; TITLE OF INVENTION: Melanocortin-4 Receptor Gene and Use as a Genetic Marker for Fat
; FILE REFERENCE: ISURP 2413
; CURRENT APPLICATION NUMBER: US/10/834,485
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: US/09/380,419C
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Sus scrofa
US-10-834-485-4

Query Match 100.0%; Score 92; DB 17; Length 248;
Best Local Similarity 100.0%; Pred. No. 2.8e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17
|||
Db 75 RYFTIFYALQYHNIMTV 91

RESULT 2
US-10-816-304-4
; Sequence 4, Application US/10816304
; Publication No. US20040261138A1

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/ GENERAL INFORMATION:
/ APPLICANT: Rothschild, Max
/ APPLICANT: Emmett, Rebecca
/ APPLICANT: Kim, Kwan
/ TITLE OF INVENTION: Genetic Markers for Improved Meat Characteristics in
/ FILE REFERENCE: ISURF 2697
/ CURRENT APPLICATION NUMBER: US/10/816,304
/ PRIOR FILING DATE: 2004-04-01
/ PRIOR FILING DATE: 2000-03-30
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 4
/ LENGTH: 248
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-816-304-4
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```
Query Match          100.0%; Score 92; DB 17; Length 248;
Best Local Similarity 100.0%; Pred. No. 2.8e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RYFTTFYALQYHNIMTV 17
    |||||
Db 75 RYFTTFYALQYHNIMTV 91
```

```
RESULT 3
US-10-207-330-8
/ Sequence 8, Application US/10207330
/ Publication No. US20030018169A1
/ GENERAL INFORMATION:
/ APPLICANT: Kochendoerfer, Gerd G
/ APPLICANT: Hunter, Christie L
/ APPLICANT: Kent, Stephen B.H.
/ APPLICANT: Botti, Paolo
/ APPLICANT: Gryphon Sciences
/ TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
/ TITLE OF INVENTION: of Membrane Polypeptides
/ FILE REFERENCE: gfrn-028/02WO
/ CURRENT APPLICATION NUMBER: US/10/207,330
/ PRIOR FILING DATE: 2002-07-30
/ PRIOR FILING DATE: 1999-08-26
/ PRIOR FILING DATE: 1998-08-31
/ PRIOR FILING DATE: 1998-08-31
/ PRIOR FILING DATE: 1999-03-05
/ PRIOR FILING DATE: 1999-03-05
/ NUMBER OF SEQ ID NOS: 30
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 8
/ LENGTH: 293
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-207-330-8
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```
Query Match          100.0%; Score 92; DB 14; Length 293;
Best Local Similarity 100.0%; Pred. No. 3.3e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RYFTTFYALQYHNIMTV 17
    |||||
Db 108 RYFTTFYALQYHNIMTV 124
```

```
RESULT 4
US-10-834-485-3
/ Sequence 3, Application US/10834485
/ Publication No. US20040235030A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Rothschild, Max F.
/ APPLICANT: Larsen, Neils
/ APPLICANT: Kim, Kwan
/ TITLE OF INVENTION: Melanocortin-4 Receptor Gene and Use as a Genetic Marker for Fat
/ FILE REFERENCE: ISURF 2413
/ CURRENT APPLICATION NUMBER: US/10/834,485
/ PRIOR FILING DATE: 2004-04-29
/ PRIOR FILING DATE: 2000-07-24
/ NUMBER OF SEQ ID NOS: 30
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 3
/ LENGTH: 311
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc.feature
/ LOCATION: (298)..(298)
/ OTHER INFORMATION: "X" can be any amino acid
US-10-834-485-3
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```
Query Match          100.0%; Score 92; DB 17; Length 311;
Best Local Similarity 100.0%; Pred. No. 3.5e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RYFTTFYALQYHNIMTV 17
    |||||
Db 105 RYFTTFYALQYHNIMTV 121
```

```
RESULT 5
US-10-816-304-3
/ Sequence 3, Application US/10816304
/ Publication No. US20040261138A1
/ GENERAL INFORMATION:
/ APPLICANT: Rothschild, Max
/ APPLICANT: Emmett, Rebecca
/ APPLICANT: Kim, Kwan
/ TITLE OF INVENTION: Genetic Markers for Improved Meat Characteristics in
/ TITLE OF INVENTION: Animals
/ FILE REFERENCE: ISURF 2697
/ CURRENT APPLICATION NUMBER: US/10/816,304
/ PRIOR FILING DATE: 2004-04-01
/ PRIOR FILING DATE: 2000-03-30
/ PRIOR FILING DATE: 2000-03-30
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 3
/ LENGTH: 311
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc.feature
/ LOCATION: (298)..(298)
/ OTHER INFORMATION: "Xaa" can be any amino acid
US-10-816-304-3
```

```
Query Match          100.0%; Score 92; DB 17; Length 311;
Best Local Similarity 100.0%; Pred. No. 3.5e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RYFTTFYALQYHNIMTV 17
    |||||
Db 105 RYFTTFYALQYHNIMTV 121
```

```
RESULT 6
US-09-876-252-74
/ Sequence 74, Application US/09876252
/ Publication No. US20030018182A1
/ GENERAL INFORMATION:
/ APPLICANT: Behan, Dominic P.
```


APPLICANT: Lehmann-Brulsma, Karin
APPLICANT: Chalmers, Derek T.
APPLICANT: Lowitz, Kevin P.
APPLICANT: Lin, I-Lin
APPLICANT: Dang, Huong T.
APPLICANT: Chen, Ruoping
TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Re
FILE REFERENCE: AREN-0054
CURRENT APPLICATION NUMBER: US/09/876,252
CURRENT FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: 09/416,760
PRIOR FILING DATE: 1999-10-12
PRIOR APPLICATION NUMBER: 09/170,496
PRIOR FILING DATE: 1998-10-13
PRIOR APPLICATION NUMBER: 60/110,060
PRIOR FILING DATE: 1998-11-27
PRIOR APPLICATION NUMBER: 60/120,416
PRIOR FILING DATE: 1999-02-16
PRIOR APPLICATION NUMBER: 60/121,852
PRIOR FILING DATE: 1999-02-26
PRIOR APPLICATION NUMBER: 60/109,213
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/123,944
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,945
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,948
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,951
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,946
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,949
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/152,524
PRIOR FILING DATE: 1999-09-03
PRIOR APPLICATION NUMBER: 60/151,114
PRIOR FILING DATE: 1999-08-27
PRIOR APPLICATION NUMBER: 60/108,029
PRIOR FILING DATE: 1998-11-12
PRIOR APPLICATION NUMBER: 60/136,436
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,439
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,567
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/137,127
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/137,131
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/141,448
PRIOR FILING DATE: 1999-06-29
PRIOR APPLICATION NUMBER: 60/136,437
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/156,555
PRIOR FILING DATE: 1999-09-29
PRIOR APPLICATION NUMBER: 60/156,634
PRIOR FILING DATE: 1999-09-29
PRIOR APPLICATION NUMBER: 60/156,653
PRIOR FILING DATE: 1999-09-29
PRIOR APPLICATION NUMBER: 60/157,280
PRIOR FILING DATE: 1999-10-01
PRIOR APPLICATION NUMBER: 60/157,294
PRIOR FILING DATE: 1999-10-01
PRIOR APPLICATION NUMBER: 60/157,281
PRIOR FILING DATE: 1999-10-01
PRIOR APPLICATION NUMBER: 60/157,282
PRIOR FILING DATE: 1999-10-01
PRIOR APPLICATION NUMBER: 60/156,633
PRIOR FILING DATE: 1999-09-29
NUMBER OF SEQ ID NOS: 146
SOFTWARE: PatentIn version 3.0

SEQ ID NO 74
LENGTH: 332
TYPE: PRT
ORGANISM: Homo sapiens
US-09-876-252-74
Query Match 100.0%; Score 92; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 3.8e-06;
Matches 11/ Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 RYPTIFALQYHNIMTV 17
Db 147 RYPTIFALQYHNIMTV 163
RESULT 7
US-09-876-252-136
Sequence 136, Application US/09876252
Publication No. US20030018182A1
GENERAL INFORMATION:
APPLICANT: Behan, Dominic P.
APPLICANT: Lehmann-Brulsma, Karin
APPLICANT: Chalmers, Derek T.
APPLICANT: Lowitz, Kevin P.
APPLICANT: Lin, I-Lin
APPLICANT: Dang, Huong T.
APPLICANT: Chen, Ruoping
APPLICANT: Law, Chen W.
TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Re
FILE REFERENCE: AREN-0054
CURRENT APPLICATION NUMBER: US/09/876,252
CURRENT FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: 09/416,760
PRIOR FILING DATE: 1999-10-12
PRIOR APPLICATION NUMBER: 09/170,496
PRIOR FILING DATE: 1998-10-13
PRIOR APPLICATION NUMBER: 60/110,060
PRIOR FILING DATE: 1998-11-27
PRIOR APPLICATION NUMBER: 60/120,416
PRIOR FILING DATE: 1999-02-16
PRIOR APPLICATION NUMBER: 60/121,852
PRIOR FILING DATE: 1999-02-26
PRIOR APPLICATION NUMBER: 60/109,213
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/123,944
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,945
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,948
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,951
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,946
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/152,524
PRIOR FILING DATE: 1999-08-27
PRIOR APPLICATION NUMBER: 60/108,029
PRIOR FILING DATE: 1998-11-12
PRIOR APPLICATION NUMBER: 60/136,436
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,439
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,567
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/137,127
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/137,131
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/141,448

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; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: 60/136,437
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/156,555
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,634
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,653
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/157,280
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,294
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,281
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,282
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/156,633
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 136
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-876-252-136
```

```

Query Match          100.0%; Score 92; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 3.8e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```

QY      1 RYFTIFYALQYHNIMTV 17
         |||||
Db      147 RYFTIFYALQYHNIMTV 163
```

```

RESULT 8
US-09-884-211A-3
; Sequence 3, Application US/09884211A
; Publication No. US20030032791A1
; GENERAL INFORMATION:
; APPLICANT: Alan et, al.
; TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
; TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
; TITLE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
; FILE REFERENCE: PC10743A
; CURRENT APPLICATION NUMBER: US/09/884,211A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: 60/213,909
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Feline MCR protein Sequence
US-09-884-211A-3
```

```

Query Match          100.0%; Score 92; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 3.8e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      1 RYFTIFYALQYHNIMTV 17
         |||||
Db      147 RYFTIFYALQYHNIMTV 163
```

```

RESULT 9
US-09-884-211A-4
; Sequence 4, Application US/09884211A
; Publication No. US20030032791A1
; GENERAL INFORMATION:
; APPLICANT: Alan et, al.
```

```

; TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
; TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
; TITLE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
; FILE REFERENCE: PC10743A
; CURRENT APPLICATION NUMBER: US/09/884,211A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: 60/213,909
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Canine MCR protein Sequence
US-09-884-211A-4
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```

Query Match          100.0%; Score 92; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 3.8e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      1 RYFTIFYALQYHNIMTV 17
         |||||
Db      147 RYFTIFYALQYHNIMTV 163
```

```

RESULT 10
US-09-910-180-2
; Sequence 2, Application US/09910180
; Publication No. US20030082678A1
; GENERAL INFORMATION:
; APPLICANT: Heilung, Hansen
; APPLICANT: Smith, Dennis
; APPLICANT: Zhang, Xing-Yue
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REGULATING BODY WEIGHT IN BOVINE SP-
; FILE REFERENCE: P-12621
; CURRENT APPLICATION NUMBER: US/09/910,180
; CURRENT FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Bovine
US-09-910-180-2
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```

Query Match          100.0%; Score 92; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 3.8e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      1 RYFTIFYALQYHNIMTV 17
         |||||
Db      147 RYFTIFYALQYHNIMTV 163
```

```

RESULT 11
US-10-226-594-4
; Sequence 4, Application US/10226594
; Publication No. US20030017966A1
; GENERAL INFORMATION:
; APPLICANT: Duman, Ronald
; TITLE OF INVENTION: MC-4R AS A TARGET FOR THE IDENTIFICATION OF COMPOUNDS
; TITLE OF INVENTION: USED TO TREAT DRUG ADDICTION
; FILE REFERENCE: 07334-101001
; CURRENT APPLICATION NUMBER: US/10/226,594
; CURRENT FILING DATE: 2002-08-23
; PRIOR APPLICATION NUMBER: US/09/385,763
; PRIOR FILING DATE: 1999-08-30
; PRIOR APPLICATION NUMBER: US 60/099,104
; PRIOR FILING DATE: 1998-09-03
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 332
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TYPE: PRT
ORGANISM: Homo sapiens
US-10-226-594-4

Query Match 100.0%; Score 92; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 3.8e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RYFTFYALQYHNIMTV 17
Db 147 RYFTFYALQYHNIMTV 163

RESULT 12
US-10-207-330-9
Sequence 9, Application US/10207330
Publication No. US20030018169A1
GENERAL INFORMATION:
APPLICANT: Kochendoerfer, Gerd G
APPLICANT: Hunter, Christie L
APPLICANT: Kent, Stephen B.H.
APPLICANT: Bottil, Paolo
APPLICANT: Gryphon Sciences
TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
TITLE OF INVENTION: of Membrane Polypeptides
FILE REFERENCE: grfn-026/02MO
CURRENT APPLICATION NUMBER: US/10/207,330
CURRENT FILING DATE: 2002-07-30
PRIOR APPLICATION NUMBER: US/09/384,302
PRIOR FILING DATE: 1999-08-26
PRIOR APPLICATION NUMBER: 09/144,964
PRIOR FILING DATE: 1998-08-31
PRIOR APPLICATION NUMBER: 09/263,971
PRIOR FILING DATE: 1999-03-05
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9
LENGTH: 332
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-207-330-9

Query Match 100.0%; Score 92; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 3.8e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RYFTFYALQYHNIMTV 17
Db 147 RYFTFYALQYHNIMTV 163

RESULT 13
US-10-288-160-16
Sequence 16, Application US/10288160
Publication No. US20030105024A1
GENERAL INFORMATION:
APPLICANT: Cone, Roger D
APPLICANT: Fan, Wei
APPLICANT: Boston, Bruce A
APPLICANT: Kesteron, Robert A
APPLICANT: Lu, Dongxi
APPLICANT: Chen, Wenbiao
TITLE OF INVENTION: Methods and Reagents for Discovering and
Using Mammalian Melanocortin Receptor Agonists and Antagoni
To Modulate Feeding Behavior in Animals
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: IL

COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/288,160
FILING DATE: 05-NO. US20030105024A1-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/706,281
FILING DATE: 04-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: No. US20030105024A1man, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 96,886
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
TELEFAX: 312-913-0002
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-288-160-16

Query Match 100.0%; Score 92; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 3.8e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RYFTFYALQYHNIMTV 17
Db 147 RYFTFYALQYHNIMTV 163

RESULT 14
US-10-074-754-2
Sequence 2, Application US/10074754
Publication No. US20030113263A1
GENERAL INFORMATION:
APPLICANT: Marks, Daniel L.
APPLICANT: Cone, Roger D.
TITLE OF INVENTION: Mammalian Melanocortin Receptor Antagonists to Treat
TITLE OF INVENTION: Cachexia
FILE REFERENCE: 96-886
CURRENT APPLICATION NUMBER: US/10/074,754
CURRENT FILING DATE: 2002-02-13
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 332
TYPE: PRT
ORGANISM: Homo sapiens
US-10-074-754-2

Query Match 100.0%; Score 92; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 3.8e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RYFTFYALQYHNIMTV 17
Db 147 RYFTFYALQYHNIMTV 163

RESULT 15
US-10-225-567A-158
Sequence 158, Application US/10225567A

/ Publication No. US20030113798A1
/ GENERAL INFORMATION:
/ APPLICANT: Lifespan Biosciences
/ APPLICANT: Brown, Joseph P.
/ APPLICANT: Burner, Glenn C.
/ APPLICANT: Roush, Christine L.
/ TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
/ FILE REFERENCE: 1920-4-4
/ CURRENT APPLICATION NUMBER: US/10/225,567A
/ PRIOR FILING DATE: 2001-12-19
/ PRIOR APPLICATION NUMBER: 60/257,144
/ PRIOR FILING DATE: 2000-12-19
/ NUMBER OF SEQ ID NOS: 2292
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 158
/ LENGTH: 332
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-225-567A-158

Query Match 100.0%; Score 92; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 3.8e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17
|||
Db 147 RYFTIFYALQYHNIMTV 163

Search completed: January 3, 2005, 18:26:56
Job time : 80.1273 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 3, 2005, 17:54:27 ; Search time 38.4909 Seconds
(without alignments)
49.966 Million cell updates/sec

Title: US-09-884-211B-4_COPY_216_244
Perfect score: 145
Sequence: 1 FLMARLHKRIAVLPGTGTIRQGANMKGA 29

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep: *
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep: *
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep: *
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep: *
5: /cgn2_6/ptodata/1/1aa/PTUS.COMB.pep: *
6: /cgn2_6/ptodata/1/1aa/backfile1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	140	96.6	293	4	US-09-384-302A-8
2	140	96.6	332	1	US-08-671-525B-8
3	140	96.6	332	1	US-08-672-109B-8
4	140	96.6	332	2	US-08-842-045-8
5	140	96.6	332	2	US-08-842-238-8
6	140	96.6	332	2	US-08-662-560-2
7	140	96.6	332	2	US-08-780-749A-2
8	140	96.6	332	2	US-08-780-749A-6
9	140	96.6	332	3	US-08-706-281A-16
10	140	96.6	332	3	US-08-629-335B-8
11	140	96.6	332	3	US-09-097-231-16
12	140	96.6	332	3	US-08-870-511-2
13	140	96.6	332	3	US-08-870-511-6
14	140	96.6	332	3	US-08-870-511-8
15	140	96.6	332	3	US-08-870-511-10
16	140	96.6	332	3	US-08-870-511-12
17	140	96.6	332	4	US-09-384-302A-6
18	140	96.6	332	4	US-09-384-302A-9
19	140	96.6	332	4	US-09-353-099-16
20	140	96.6	332	4	US-09-831-206-2
21	81	55.9	323	4	US-09-709-066-2
22	81	55.9	325	1	US-08-671-525B-10
23	81	55.9	325	1	US-08-672-109B-10
24	81	55.9	325	2	US-08-842-045-10
25	81	55.9	325	2	US-08-842-238-10
26	81	55.9	325	3	US-08-706-281A-18
27	81	55.9	325	3	US-08-629-335B-10

28	81	55.9	325	3	US-09-097-231-18	Sequence 18, Appl
29	81	55.9	325	4	US-09-353-099-18	Sequence 18, Appl
30	80	55.2	325	4	US-09-831-228-2	Sequence 2, Appl
31	72	49.7	104	4	US-08-387-805-10	Sequence 10, Appl
32	72	49.7	360	1	US-08-671-525B-6	Sequence 6, Appl
33	72	49.7	360	1	US-08-672-109B-6	Sequence 6, Appl
34	72	49.7	360	2	US-08-842-045-6	Sequence 6, Appl
35	72	49.7	360	2	US-08-842-238-6	Sequence 6, Appl
36	72	49.7	360	2	US-08-780-749A-1	Sequence 1, Appl
37	72	49.7	360	3	US-08-629-335B-6	Sequence 6, Appl
38	72	49.7	360	3	US-08-870-511-1	Sequence 1, Appl
39	72	49.7	360	4	US-09-709-066-4	Sequence 4, Appl
40	70	48.3	102	4	US-08-387-805-8	Sequence 8, Appl
41	69	47.6	325	4	US-08-387-805-16	Sequence 16, Appl
42	68	46.9	323	2	US-08-044-812A-4	Sequence 4, Appl
43	68	46.9	323	2	US-08-475-637-4	Sequence 4, Appl
44	68	46.9	323	3	US-09-191-359-4	Sequence 4, Appl
45	67	46.2	323	3	US-08-706-281A-12	Sequence 12, Appl

ALIGNMENTS

```
RESULT 1
US-09-384-302A-8
; Sequence 8, Application US/09384302A
; Patent No. 6451543
; GENERAL INFORMATION:
; APPLICANT: Kochendoerfer, Gerd G
; APPLICANT: Hunter, Christie L
; APPLICANT: Kent, Stephen B.H.
; APPLICANT: Botti, Paolo
; APPLICANT: Gryphon Sciences
; TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
; FILE REFERENCE: grfn-028/02WO
; CURRENT APPLICATION NUMBER: US/09/384,302A
; CURRENT FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: 09/144,964
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 09/263,971
; PRIOR FILING DATE: 1999-03-05
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 293
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-384-302A-8
Query Match          96.6%; Score 140; DB 4; Length 293;
Best Local Similarity 96.6%; Pred. No. 6,2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      1 FLMARLHKRIAVLPGTGTIRQGANMKGA 29
Db      177 FLMARLHKRIAVLPGTGAIRQGANMKGA 205
RESULT 2
US-08-671-525B-8
; Sequence 8, Application US/08671525B
; Patent No. 5703220
; GENERAL INFORMATION:
; APPLICANT: Yamada, Tadataka
; APPLICANT: Gantz, Ira
; TITLE OF INVENTION: Gene Encoding Melanocortin Receptors
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Harness, Dickey & Pierce, P.L.C.
; STREET: P.O. Box 828
```

CITY: Bloomfield Hills
STATE: MI
COUNTRY: US
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Releasee #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/671,525B
FILING DATE: June 27, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Smith, Deann F.
REGISTRATION NUMBER: 36683
REFERENCE/DOCKET NUMBER: 2115-000853DVB
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810)641-1600
TELEFAX: (810)641-0270
INFORMATION FOR SEQ. ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-671-525B-8

Query Match 96.6%; Score 140; DB 1; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIMARLHKRIAVLPETGIRGANNKGA 29
DB 216 FIMARLHKRIAVLPETGIRGANNKGA 244

RESULT 3
US-08-672-109B-8
Sequence 8, Application US/08672109B
Patent No. 5710265
GENERAL INFORMATION:
APPLICANT: Yamada, Tadataka
INVENTOR: Gantz, Ira
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
STREET: P.O. Box 828
CITY: Bloomfield Hills
STATE: MI
COUNTRY: US
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Releasee #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/672,109B
FILING DATE: June 27, 1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Smith, Deann F.
REGISTRATION NUMBER: 36683
REFERENCE/DOCKET NUMBER: 2115-000853DVC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810)641-1600
TELEFAX: (810)641-0270
INFORMATION FOR SEQ. ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-672-109B-8

Query Match 96.6%; Score 140; DB 1; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIMARLHKRIAVLPETGIRGANNKGA 29
DB 216 FIMARLHKRIAVLPETGIRGANNKGA 244

RESULT 4
US-08-842-045-8
Sequence 8, Application US/08842045
Patent No. 581787

GENERAL INFORMATION:
APPLICANT: Yamada, Tadataka
INVENTOR: Gantz, Ira
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
STREET: P.O. Box 828
CITY: Bloomfield Hills
STATE: MI
COUNTRY: US
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Releasee #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/842,045
FILING DATE:
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Smith, Deann F.
REGISTRATION NUMBER: 36683
REFERENCE/DOCKET NUMBER: 2115-000853DVE
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810)641-1600
TELEFAX: (810)641-0270
INFORMATION FOR SEQ. ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-842-045-8

Query Match 96.6%; Score 140; DB 2; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIMARLHKRIAVLPETGIRGANNKGA 29
DB 216 FIMARLHKRIAVLPETGIRGANNKGA 244

RESULT 5
US-08-842-238-8
Sequence 8, Application US/08842238
Patent No. 5869257
GENERAL INFORMATION:
APPLICANT: Yamada, Tadataka
INVENTOR: Gantz, Ira
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.

STREET: P.O. Box 828
CITY: Bloomfield Hills
STATE: MI
COUNTRY: US
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/842,238
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Smith, Dean F.
REGISTRATION NUMBER: 36683
REFERENCE/DOCKET NUMBER: 2115-000853DVD
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810)641-1600
TELEFAX: (810)641-0270
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-842-238-8

Query Match 96.6%; Score 140; DB 2; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FLMARLHKRIAVLPGTGTIRQGANMKGA 29
Db 216 FLMARLHKRIAVLPGTGTIRQGANMKGA 244

RESULT 6
US-08-662-560-2
Sequence 2, Application US/08662560
Patent No. 5908609
GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huszar, Dennis
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS
TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036/2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/662,560
FILING DATE: 10-JUN-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-060
TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-790-9090
TELEFAX: 212-869-8864
TELEX: 66141 PENNIB
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-08-662-560-2

Query Match 96.6%; Score 140; DB 2; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FLMARLHKRIAVLPGTGTIRQGANMKGA 29
Db 216 FLMARLHKRIAVLPGTGTIRQGANMKGA 244

RESULT 7
US-08-780-749A-2
Sequence 2, Application US/08780749A
Patent No. 5932779
GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huszar, Dennis
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS
TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036/2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/780,749A
FILING DATE: 08-JAN-1997
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Laura A. Coruzzi
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIB
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-780-749A-2

Query Match 96.6%; Score 140; DB 2; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FLMARLHKRIAVLPGTGTIRQGANMKGA 29
Db 216 FLMARLHKRIAVLPGTGTIRQGANMKGA 244

RESULT 8
US-08-780-749A-6
Sequence 6, Application US/08780749A
Patent No. 5932779
GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huzar, Dennis
APPLICANT: Gu, Wei
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS
TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036/2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/780,749A
FILING DATE: 08-JAN-1997
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Laura A. Coruzzi
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-064
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-780-749A-6

Query Match 96.6%; Score 140; DB 2; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHKRIAYLPETGTRIGANMKGA 29
Db 216 FLMARLHKRIAYLPETGTRIGANMKGA 244

RESULT 9
US-08-706-281A-16
Sequence 16, Application US/08706281A
Patent No. 6100048
GENERAL INFORMATION:
APPLICANT: Cone, Roger D
APPLICANT: Fan, Wei
APPLICANT: Boston, Bruce A
APPLICANT: Keesteron, Robert A
APPLICANT: Lu, Dongxi
APPLICANT: Chen, Wendiao
TITLE OF INVENTION: Methods and Reagents for Discovering and
TITLE OF INVENTION: Using Mammalian Melanocortin Receptor Agonists and Antagonists
TITLE OF INVENTION: To Modulate Feeding Behavior in Animals
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive

CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/706,281A
FILING DATE: 04-SEP-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: NO. 6100048man, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 96, 886
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
TELEFAX: 312-913-0002
TELEX:
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-706-281A-16

Query Match 96.6%; Score 140; DB 3; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHKRIAYLPETGTRIGANMKGA 29
Db 216 FLMARLHKRIAYLPETGTRIGANMKGA 244

RESULT 10
US-08-629-335B-8
Sequence 8, Application US/08629335B
Patent No. 6117975
GENERAL INFORMATION:
APPLICANT: Yamada, Tadataka
APPLICANT: Gantz, Ira
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
STREET: P.O. Box 828
CITY: Bloomfield Hills
STATE: MI
COUNTRY: US
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/629,335B
FILING DATE: July 23, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Smith, Dean F.
REGISTRATION NUMBER: 36683
REFERENCE/DOCKET NUMBER: 2115-000853DVA
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810)641-1600
TELEFAX: (810)641-0270
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-629-335B-8

Query Match 96.6%; Score 140; DB 3; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHKRIAVLPGTGTRQGANMKGA 29
DB 216 FLMARLHKRIAVLPGTGTRQGANMKGA 244

RESULT 11
US-09-097-231-16
Sequence 16, Application US/09097231
Patent No. 6278038

GENERAL INFORMATION:
APPLICANT: Cone, Roger D
Chen, Weibiao
Low, Malcolm J

TITLE OF INVENTION: Mammalian Melanocortin Receptor and Uses
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/097,231
FILING DATE: 12-Jun-1998
CLASSIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: No. 6278038nam, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 96,886-C
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
TELEFAX: 312-913-0002
TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:

LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-097-231-16

Query Match 96.6%; Score 140; DB 3; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHKRIAVLPGTGTRQGANMKGA 29
DB 216 FLMARLHKRIAVLPGTGTRQGANMKGA 244

RESULT 12
US-08-870-511-2
Sequence 2, Application US/08870511
Patent No. 6287763
GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huzar, Dennis

APPLICANT: Gu, Wei
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
TITLE OF INVENTION: REGULATION OF BODY WEIGHT
FILE REFERENCE: 7853-083
CURRENT APPLICATION NUMBER: US/08/870,511
CURRENT FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 45
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2
LENGTH: 332
TYPE: PRT
ORGANISM: Homo sapiens
US-08-870-511-2

Query Match 96.6%; Score 140; DB 3; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHKRIAVLPGTGTRQGANMKGA 29
DB 216 FLMARLHKRIAVLPGTGTRQGANMKGA 244

RESULT 13
US-08-870-511-6
Sequence 6, Application US/08870511
Patent No. 6287763

GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huzar, Dennis

TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
TITLE OF INVENTION: REGULATION OF BODY WEIGHT
FILE REFERENCE: 7853-083
CURRENT APPLICATION NUMBER: US/08/870,511
CURRENT FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 45
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 6
LENGTH: 332
TYPE: PRT
ORGANISM: Homo sapiens
US-08-870-511-6

Query Match 96.6%; Score 140; DB 3; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHKRIAVLPGTGTRQGANMKGA 29
DB 216 FLMARLHKRIAVLPGTGTRQGANMKGA 244

RESULT 14
US-08-870-511-8
Sequence 8, Application US/08870511
Patent No. 6287763

GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huzar, Dennis

TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
TITLE OF INVENTION: REGULATION OF BODY WEIGHT
FILE REFERENCE: 7853-083
CURRENT APPLICATION NUMBER: US/08/870,511
CURRENT FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 45
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 8
LENGTH: 332
TYPE: PRT
ORGANISM: Homo sapiens
US-08-870-511-8

Query Match 96.6%; Score 140; DB 3; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHKRIAVLPGTGTRQGANMKGA 29
DB 216 FLMARLHKRIAVLPGTGTRQGANMKGA 244

RESULT 14
US-08-870-511-8
Sequence 8, Application US/08870511
Patent No. 6287763

GENERAL INFORMATION:
APPLICANT: Lee, Frank
APPLICANT: Huzar, Dennis

Query Match 96.6%; Score 140; DB 3; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHIKRIAVLPGTGTIROGANMKGA 29
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DB 216 FLMARLHIKRIAVLPGTGTIROGANMKGA 244

RESULT 15

US-08-870-511-10
; Sequence 10; Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
; APPLICANT: Lee, Frank
; APPLICANT: Huszar, Dennis
; APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
; FILE REFERENCE: 7853-083
; CURRENT APPLICATION NUMBER: US/08/870,511
; CURRENT FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-870-511-10

Query Match 96.6%; Score 140; DB 3; Length 332;
Best Local Similarity 96.6%; Pred. No. 7.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHIKRIAVLPGTGTIROGANMKGA 29
|||||
DB 216 FLMARLHIKRIAVLPGTGTIROGANMKGA 244

Search completed: January 3, 2005, 18:07:21
Job time : 39.4909 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 3, 2005, 18:03:38 ; Search time 134.982 Seconds
(without alignments)
77.285 Million cell updates/sec

Title: US-09-884-211b-4_COPY_216_244

Perfect score: 145
Sequence: 1 FIMARLHKRIAVLPCTGTIRQGNMKGCA 29

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1599051 seqs, 359727711 residues

Total number of hits satisfying chosen parameters: 1599051

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

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19: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
20: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	145	100.0	248	US-10-834-485-4 Sequence 4, Appl1
2	145	100.0	248	US-10-816-304-4 Sequence 4, Appl1
3	145	100.0	332	US-09-884-211A-3 Sequence 3, Appl1
4	145	100.0	332	US-09-884-211A-4 Sequence 4, Appl1
5	141	97.2	332	US-09-910-180-2 Sequence 2, Appl1
6	140	96.6	293	US-10-207-330-8 Sequence 8, Appl1
7	140	96.6	311	US-10-834-485-3 Sequence 3, Appl1
8	140	96.6	311	US-10-816-304-3 Sequence 3, Appl1
9	140	96.6	332	US-09-876-252-74 Sequence 74, Appl1
10	140	96.6	332	US-10-226-594-4 Sequence 4, Appl1
11	140	96.6	332	US-10-207-330-6 Sequence 6, Appl1
12	140	96.6	332	US-10-207-330-9 Sequence 9, Appl1
13	140	96.6	332	US-10-288-160-16 Sequence 16, Appl1

14	140	96.6	332	US-10-074-754-2 Sequence 2, Appl1
15	140	96.6	332	US-10-225-567A-158 Sequence 158, App
16	140	96.6	332	US-10-373-355-2 Sequence 2, Appl1
17	140	96.6	332	US-10-318-661-27 Sequence 27, Appl1
18	140	96.6	332	US-10-413-752-2 Sequence 2, Appl1
19	140	96.6	332	US-10-417-820A-74 Sequence 74, Appl1
20	140	96.6	332	US-10-723-955-74 Sequence 74, Appl1
21	136	93.8	332	US-09-876-252-136 Sequence 136, App
22	136	93.8	332	US-10-413-752-6 Sequence 6, Appl1
23	136	93.8	332	US-10-417-820A-136 Sequence 136, App
24	136	93.8	332	US-10-723-955-136 Sequence 136, App
25	91	62.8	325	US-10-225-567A-160 Sequence 160, App
26	91	62.8	325	US-10-369-022-40 Sequence 40, Appl1
27	90	62.1	325	US-10-256-089-2 Sequence 2, Appl1
28	86	59.3	18	US-09-810-180-15 Sequence 15, Appl1
29	81	55.9	323	US-09-903-395-2 Sequence 2, Appl1
30	81	55.9	325	US-10-288-160-18 Sequence 18, Appl1
31	75	51.7	360	US-10-226-594-3 Sequence 3, Appl1
32	74	51.0	16	US-10-225-567A-1062 Sequence 1062, Ap
33	72	49.7	104	US-10-052-545-10 Sequence 10, Appl1
34	72	49.7	160	US-10-225-567A-156 Sequence 156, App
35	72	49.7	360	US-10-413-752-1 Sequence 1, Appl1
36	70	48.3	102	US-10-052-545-8 Sequence 8, Appl1
37	69	47.6	325	US-10-052-545-16 Sequence 16, Appl1
38	68	46.9	323	US-09-826-509-523 Sequence 523, App
39	67	46.2	323	US-10-288-160-12 Sequence 12, Appl1
40	61.5	42.4	296	US-10-015-948-2 Sequence 2, Appl1
41	61	42.1	14	US-09-841-091B-29 Sequence 29, Appl1
42	61	42.1	14	US-10-251-703-28 Sequence 28, Appl1
43	60.5	41.7	95	US-10-052-545-6 Sequence 6, Appl1
44	60.5	41.7	297	US-10-226-594-2 Sequence 2, Appl1
45	60.5	41.7	297	US-10-151-431-4 Sequence 4, Appl1

ALIGNMENTS

RESULT 1
US-10-834-485-4
; Sequence 4, Application US/10834485
; Publication No. US20040235030A1
; GENERAL INFORMATION:
; APPLICANT: Rothschild, Max F.
; APPLICANT: Larsen, Neile
; TITLE OF INVENTION: Melanocortin-4 Receptor Gene and Use as a Genetic Marker for Fat
; FILE REFERENCE: ISURF 2413
; CURRENT APPLICATION NUMBER: US/10/834,485
; CURRENT FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: US/09/380,419C
; PRIOR FILING DATE: 2000-07-24
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Sus scrofa
US-10-834-485-4

Query Match 100.0%; Score 145; DB 17; Length 248;
Best Local Similarity 100.0%; Pred. No. 1.9e-14;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 FIMARLHKRIAVLPCTGTIRQGNMKGCA 29
144 FIMARLHKRIAVLPCTGTIRQGNMKGCA 172

RESULT 2
US-10-816-304-4
; Sequence 4, Application US/10816304
; Publication No. US20040261138A1

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/ GENERAL INFORMATION:
/ APPLICANT: Rothschild, Max
/ APPLICANT: Emmett, Rebecca
/ APPLICANT: Kim, Kwan
/ TITLE OF INVENTION: Genetic Markers for Improved Meat Characteristics in
/ FILE REFERENCE: ISURF 2697
/ CURRENT APPLICATION NUMBER: US/10/816,304
/ PRIOR FILING DATE: 2004-04-01
/ PRIOR APPLICATION NUMBER: US/09/538,165
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 4
/ LENGTH: 248
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-816-304-4
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Query Match          100.0%; Score 145; DB 17; Length 248;
Best Local Similarity 100.0%; Pred. No. 1,9e-14;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      144 FLMARLHKRIAVLPGTGTRIGANMKGA 172
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RESULT 3
US-09-884-211A-3
/ Sequence 3, Application US/09884211A
/ Publication No. US20030032791A1
/ GENERAL INFORMATION:
/ APPLICANT: Alan et, al.
/ TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
/ TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
/ FILE REFERENCE: PC10743A
/ CURRENT APPLICATION NUMBER: US/09/884,211A
/ PRIOR FILING DATE: 2000-06-26
/ PRIOR APPLICATION NUMBER: 60/213,909
/ NUMBER OF SEQ ID NOS: 6
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 3
/ LENGTH: 332
/ TYPE: PRT
/ ORGANISM: Feline MC4R protein Sequence
US-09-884-211A-3
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Query Match          100.0%; Score 145; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 2,7e-14;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 FLMARLHKRIAVLPGTGTRIGANMKGA 29
Db      216 FLMARLHKRIAVLPGTGTRIGANMKGA 244
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RESULT 4
US-09-884-211A-4
/ Sequence 4, Application US/09884211A
/ Publication No. US20030032791A1
/ GENERAL INFORMATION:
/ APPLICANT: Alan et, al.
/ TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
/ TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
/ FILE REFERENCE: PC10743A
/ CURRENT APPLICATION NUMBER: US/09/884,211A
/ PRIOR FILING DATE: 2000-06-26
/ PRIOR APPLICATION NUMBER: 60/213,909
/ PRIOR FILING DATE: 2000-06-26
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/ NUMBER OF SEQ ID NOS: 6
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 4
/ LENGTH: 332
/ TYPE: PRT
/ ORGANISM: Canine MC4R protein Sequence
US-09-884-211A-4
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Best Local Similarity 100.0%; Pred. No. 2,7e-14;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 FLMARLHKRIAVLPGTGTRIGANMKGA 29
Db      216 FLMARLHKRIAVLPGTGTRIGANMKGA 244
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RESULT 5
US-09-910-180-2
/ Sequence 2, Application US/09910180
/ Publication No. US20030082678A1
/ GENERAL INFORMATION:
/ APPLICANT: Hsiung, Hansen
/ APPLICANT: Smith, Dennis
/ APPLICANT: Zhang, King-Yue
/ TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REGULATING BODY WEIGHT IN BOVINE SPI
/ FILE REFERENCE: P-12621
/ CURRENT APPLICATION NUMBER: US/09/910,180
/ CURRENT FILING DATE: 2002-04-11
/ NUMBER OF SEQ ID NOS: 22
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 2
/ LENGTH: 332
/ TYPE: PRT
/ ORGANISM: Bovine
US-09-910-180-2
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Query Match          97.2%; Score 141; DB 10; Length 332;
Best Local Similarity 96.6%; Pred. No. 1,2e-13;
Matches 28; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 FLMARLHKRIAVLPGTGTRIGANMKGA 29
Db      216 FLMARLHKRIAVLPGTGTRIGANMKGA 244
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RESULT 6
US-10-207-330-8
/ Sequence 8, Application US/10207330
/ Publication No. US20030018169A1
/ GENERAL INFORMATION:
/ APPLICANT: Kochendoerfer, Gerd G
/ APPLICANT: Hunter, Christie L
/ APPLICANT: Kent, Stephen B.H.
/ APPLICANT: Botti, Paolo
/ APPLICANT: Gryphon Sciences
/ TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
/ TITLE OF INVENTION: Of Membrane Polypeptides
/ FILE REFERENCE: grth-028/02MO
/ CURRENT APPLICATION NUMBER: US/10/207,330
/ PRIOR FILING DATE: 2002-07-30
/ PRIOR APPLICATION NUMBER: US/09/384,302
/ PRIOR FILING DATE: 1999-08-26
/ PRIOR APPLICATION NUMBER: 09/144,964
/ PRIOR FILING DATE: 1998-08-31
/ PRIOR APPLICATION NUMBER: 09/263,971
/ PRIOR FILING DATE: 1999-03-05
/ NUMBER OF SEQ ID NOS: 30
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 8
/ LENGTH: 293
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
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/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-207-330-8
Query Match          96.6%; Score 140; DB 14; Length 293;
Best Local Similarity 96.6%; Pred. No. 1.4e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  FLMARLHKRIAVLPGTGTROGANMKGA 29
Db      177  FLMARLHKRIAVLPGTGAIROGANMKGA 205

RESULT 7
US-10-834-485-3
/ Sequence 3, Application US/10834485
/ Publication No. US20040235030A1
/ GENERAL INFORMATION:
/ APPLICANT: Rothschild, Max F.
/ APPLICANT: Larsen, Nelle
/ APPLICANT: Kim, Kwan
/ TITLE OF INVENTION: Melanocortin-4 Receptor Gene and Use as a Genetic Marker for Fat
/ FILE REFERENCE: ISURF 2413
/ CURRENT APPLICATION NUMBER: US/10/834,485
/ PRIOR FILING DATE: 2004-04-29
/ PRIOR APPLICATION NUMBER: US/09/380,419C
/ PRIOR FILING DATE: 2000-07-24
/ NUMBER OF SEQ ID NOS: 30
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 3
/ LENGTH: 311
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc (298)
/ LOCATION: (298)..(298)
/ OTHER INFORMATION: "X" can be any amino acid
US-10-834-485-3

Query Match          96.6%; Score 140; DB 17; Length 311;
Best Local Similarity 96.6%; Pred. No. 1.5e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  FLMARLHKRIAVLPGTGTROGANMKGA 29
Db      174  FLMARLHKRIAVLPGTGAIROGANMKGA 202

RESULT 8
US-10-816-304-3
/ Sequence 3, Application US/10816304
/ Publication No. US20040261138A1
/ GENERAL INFORMATION:
/ APPLICANT: Rothschild, Max
/ APPLICANT: Emmett, Rebecca
/ APPLICANT: Kim, Kwan
/ TITLE OF INVENTION: Genetic Markers for Improved Meat Characteristics in
/ TITLE OF INVENTION: Animals
/ FILE REFERENCE: ISURF 2697
/ CURRENT APPLICATION NUMBER: US/10/816,304
/ PRIOR FILING DATE: 2004-04-01
/ PRIOR APPLICATION NUMBER: US/09/538,165
/ PRIOR FILING DATE: 2000-03-30
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 3
/ LENGTH: 311
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: (298)..(298)
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/ OTHER INFORMATION: "Xaa" can be any amino acid
US-10-816-304-3
Query Match          96.6%; Score 140; DB 17; Length 311;
Best Local Similarity 96.6%; Pred. No. 1.5e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  FLMARLHKRIAVLPGTGTROGANMKGA 29
Db      174  FLMARLHKRIAVLPGTGAIROGANMKGA 202

RESULT 9
US-09-876-252-74
/ Sequence 74, Application US/09876252
/ Publication No. US20030018182A1
/ GENERAL INFORMATION:
/ APPLICANT: Behan, Dominic P.
/ APPLICANT: Lehmann-Brulsma, Karin
/ APPLICANT: Chalmers, Derek T.
/ APPLICANT: Lowitz, Kevin P.
/ APPLICANT: Lin, I-Lin
/ APPLICANT: Dang, Huong T.
/ APPLICANT: Chen, Ruoping
/ APPLICANT: Liaw, Chen W.
/ TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Re
/ FILE REFERENCE: AREN-0054
/ CURRENT APPLICATION NUMBER: US/09/876,252
/ PRIOR FILING DATE: 2001-06-07
/ PRIOR APPLICATION NUMBER: 09/416,760
/ PRIOR FILING DATE: 1999-10-12
/ PRIOR APPLICATION NUMBER: 09/170,496
/ PRIOR FILING DATE: 1998-10-13
/ PRIOR APPLICATION NUMBER: 60/110,060
/ PRIOR FILING DATE: 1998-11-27
/ PRIOR APPLICATION NUMBER: 60/120,416
/ PRIOR FILING DATE: 1999-02-16
/ PRIOR APPLICATION NUMBER: 60/121,852
/ PRIOR FILING DATE: 1999-02-26
/ PRIOR APPLICATION NUMBER: 60/109,213
/ PRIOR FILING DATE: 1998-11-20
/ PRIOR APPLICATION NUMBER: 60/123,944
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,945
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,948
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,951
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,946
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,949
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/152,524
/ PRIOR FILING DATE: 1999-09-03
/ PRIOR APPLICATION NUMBER: 60/151,114
/ PRIOR FILING DATE: 1999-08-27
/ PRIOR APPLICATION NUMBER: 60/108,029
/ PRIOR FILING DATE: 1998-11-12
/ PRIOR APPLICATION NUMBER: 60/136,436
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,439
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,567
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/137,127
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/137,131
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/141,448
/ PRIOR FILING DATE: 1999-06-29
/ PRIOR APPLICATION NUMBER: 60/136,437
/ PRIOR FILING DATE: 1999-05-28
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/ PRIOR APPLICATION NUMBER: 60/156,555
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/156,634
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/156,653
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/157,280
/ PRIOR FILING DATE: 1999-10-01
/ PRIOR APPLICATION NUMBER: 60/157,294
/ PRIOR FILING DATE: 1999-10-01
/ PRIOR APPLICATION NUMBER: 60/157,281
/ PRIOR FILING DATE: 1999-10-01
/ PRIOR APPLICATION NUMBER: 60/157,282
/ PRIOR FILING DATE: 1999-10-01
/ PRIOR APPLICATION NUMBER: 60/156,633
/ PRIOR FILING DATE: 1999-09-29
/ NUMBER OF SEQ ID NOS: 146
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 74
/ LENGTH: 332
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-876-252-74
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Query Match          96.6%; Score 140; DB 10; Length 332;
Best Local Similarity 96.6%; Pred. No. 1.7e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 1 FLMARLHKRIAVLPQTGTIRGANNKGA 29
Db 216 FLMARLHKRIAVLPQTGTIRGANNKGA 244
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RESULT 10
US-10-226-594-4
/ Sequence 4, Application US/10226594
/ Publication No. US20030017966A1
/ GENERAL INFORMATION:
/ APPLICANT: Duman, Ronald
/ TITLE OF INVENTION: MC-8R AS A TARGET FOR THE IDENTIFICATION OF COMPOUNDS
/ FILE REFERENCE: 07334-101001
/ CURRENT APPLICATION NUMBER: US/10/226,594
/ PRIOR FILING DATE: 2002-08-23
/ PRIOR APPLICATION NUMBER: US/09/385,763
/ PRIOR FILING DATE: 1999-08-30
/ PRIOR APPLICATION NUMBER: US 60/099,104
/ PRIOR FILING DATE: 1998-09-03
/ NUMBER OF SEQ ID NOS: 4
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 4
/ LENGTH: 332
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-226-594-4
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Query Match          96.6%; Score 140; DB 14; Length 332;
Best Local Similarity 96.6%; Pred. No. 1.7e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 1 FLMARLHKRIAVLPQTGTIRGANNKGA 29
Db 216 FLMARLHKRIAVLPQTGTIRGANNKGA 244
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RESULT 11
US-10-207-330-6
/ Sequence 6, Application US/10207330
/ Publication No. US20030018169A1
/ GENERAL INFORMATION:
/ APPLICANT: Koehendoerfer, Gerd G
/ APPLICANT: Hunter, Christie L
/ APPLICANT: Kent, Stephen B.H.
```

```
/ APPLICANT: Botli, Paolo
/ APPLICANT: Gryphon Sciences
/ TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
/ FILE REFERENCE: grfn-028/02WO
/ CURRENT APPLICATION NUMBER: US/10/207,330
/ PRIOR FILING DATE: 2002-07-30
/ PRIOR APPLICATION NUMBER: US/09/384,302
/ PRIOR FILING DATE: 1999-08-26
/ PRIOR APPLICATION NUMBER: 09/144,964
/ PRIOR FILING DATE: 1998-08-31
/ PRIOR APPLICATION NUMBER: 09/263,971
/ PRIOR FILING DATE: 1999-03-05
/ NUMBER OF SEQ ID NOS: 30
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 6
/ LENGTH: 332
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-207-330-6
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Query Match          96.6%; Score 140; DB 14; Length 332;
Best Local Similarity 96.6%; Pred. No. 1.7e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 1 FLMARLHKRIAVLPQTGTIRGANNKGA 29
Db 216 FLMARLHKRIAVLPQTGTIRGANNKGA 244
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RESULT 12
US-10-207-330-9
/ Sequence 9, Application US/10207330
/ Publication No. US20030018169A1
/ GENERAL INFORMATION:
/ APPLICANT: Koehendoerfer, Gerd G
/ APPLICANT: Hunter, Christie L
/ APPLICANT: Kent, Stephen B.H.
/ APPLICANT: Botli, Paolo
/ TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
/ FILE REFERENCE: grfn-028/02WO
/ CURRENT APPLICATION NUMBER: US/10/207,330
/ PRIOR FILING DATE: 2002-07-30
/ PRIOR APPLICATION NUMBER: US/09/384,302
/ PRIOR FILING DATE: 1999-08-26
/ PRIOR APPLICATION NUMBER: 09/144,964
/ PRIOR FILING DATE: 1998-08-31
/ PRIOR APPLICATION NUMBER: 09/263,971
/ PRIOR FILING DATE: 1999-03-05
/ NUMBER OF SEQ ID NOS: 30
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 9
/ LENGTH: 332
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-207-330-9
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Query Match          96.6%; Score 140; DB 14; Length 332;
Best Local Similarity 96.6%; Pred. No. 1.7e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 1 FLMARLHKRIAVLPQTGTIRGANNKGA 29
Db 216 FLMARLHKRIAVLPQTGTIRGANNKGA 244
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RESULT 13
US-10-207-330-6
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US-10-288-160-16
; Sequence 16, Application US/10288160
; Publication No. US20030105024A1
; GENERAL INFORMATION:
; APPLICANT: Cone, Roger D
; Fan, Wei
; Boston, Bruce A
; Kesterton, Robert A
; Lu, Dongxi
; Chen, Wendiao
; TITLE OF INVENTION: Methods and Reagents for Discovering and
; Using Mammalian Melanocortin Receptor Agonists and Antagoni
; To Modulate Feeding Behavior in Animals
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/288,160
; FILING DATE: 05-No. US20030105024A1-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/706,281
; FILING DATE: 04-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: No. US20030105024A1nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 96,886
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-913-0001
; TELEFAX: 312-913-0002
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-288-160-16
Query Match 96.6%; Score 140; DB 14; Length 332;
Best Local Similarity 96.6%; Pred. No. 1.7e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 FLMARLHKRIAVLPGTGTIRQGNMKGA 29
DB 216 FLMARLHKRIAVLPGTGTIRQGNMKGA 244
RESULT 14
US-10-074-754-2
; Sequence 2, Application US/10074754
; Publication No. US20030113263A1
; GENERAL INFORMATION:
; APPLICANT: Marks, Daniel L.
; APPLICANT: Cone, Roger D.
; TITLE OF INVENTION: Methods and Reagents for Discovering and Using
; TITLE OF INVENTION: Mammalian Melanocortin Receptor Antagonists to Treat
; FILE REFERENCE: 96-886
; CURRENT APPLICATION NUMBER: US/10/074,754
; CURRENT FILING DATE: 2002-02-13
; NUMBER OF SEQ ID NOS: 10

; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-074-754-2
Query Match 96.6%; Score 140; DB 14; Length 332;
Best Local Similarity 96.6%; Pred. No. 1.7e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 FLMARLHKRIAVLPGTGTIRQGNMKGA 29
DB 216 FLMARLHKRIAVLPGTGTIRQGNMKGA 244
RESULT 15
US-10-225-567A-158
; Sequence 158, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burner, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTOR
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn Version 3.1
; SEQ ID NO 158
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-225-567A-158
Query Match 96.6%; Score 140; DB 14; Length 332;
Best Local Similarity 96.6%; Pred. No. 1.7e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 FLMARLHKRIAVLPGTGTIRQGNMKGA 29
DB 216 FLMARLHKRIAVLPGTGTIRQGNMKGA 244
Search completed: January 3, 2005, 18:26:56
Job time : 134.982 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 3, 2005, 17:54:27 ; Search time 11.9455 Seconds
(without alignments)
49.966 Million cell updates/sec

Title: US-09-884-211B-4_COPY_69_77

Perfect score: 46
Sequence: 1 IAKNKILHS 9

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Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	* Query Match	Length	ID	Description
1	46	100.0	332	1 US-08-671-525B-8	Sequence 8, Appli
2	46	100.0	332	1 US-08-672-109B-8	Sequence 8, Appli
3	46	100.0	332	2 US-08-842-045-8	Sequence 8, Appli
4	46	100.0	332	2 US-08-842-238-8	Sequence 8, Appli
5	46	100.0	332	2 US-08-662-560-2	Sequence 2, Appli
6	46	100.0	332	2 US-08-780-749A-2	Sequence 2, Appli
7	46	100.0	332	2 US-08-780-749A-6	Sequence 6, Appli
8	46	100.0	332	3 US-08-706-281A-16	Sequence 16, Appli
9	46	100.0	332	3 US-08-629-335B-8	Sequence 8, Appli
10	46	100.0	332	3 US-09-037-231-16	Sequence 16, Appli
11	46	100.0	332	3 US-08-870-511-2	Sequence 2, Appli
12	46	100.0	332	3 US-08-870-511-6	Sequence 6, Appli
13	46	100.0	332	3 US-08-870-511-8	Sequence 8, Appli
14	46	100.0	332	3 US-08-870-511-10	Sequence 10, Appli
15	46	100.0	332	3 US-08-870-511-12	Sequence 12, Appli
16	46	100.0	332	4 US-09-384-302A-6	Sequence 6, Appli
17	46	100.0	332	4 US-09-384-302A-9	Sequence 9, Appli
18	46	100.0	332	4 US-09-353-099-16	Sequence 16, Appli
19	46	100.0	332	4 US-09-831-206-2	Sequence 2, Appli
20	43	93.5	297	4 US-09-868-552-46	Sequence 46, Appli
21	43	93.5	317	1 US-07-866-979-6	Sequence 6, Appli
22	43	93.5	317	1 US-08-671-525B-2	Sequence 2, Appli
23	43	93.5	317	1 US-08-672-109B-2	Sequence 2, Appli
24	43	93.5	317	2 US-08-842-045-2	Sequence 6, Appli
25	43	93.5	317	2 US-08-466-906B-6	Sequence 2, Appli
26	43	93.5	317	2 US-08-842-238-2	Sequence 2, Appli
27	43	93.5	317	2 US-08-780-749A-4	Sequence 4, Appli

28	43	93.5	317	3 US-08-706-281A-6	Sequence 6, Appli
29	43	93.5	317	3 US-08-629-335B-2	Sequence 2, Appli
30	43	93.5	317	3 US-09-201-746-6	Sequence 6, Appli
31	43	93.5	317	3 US-09-097-231-6	Sequence 6, Appli
32	43	93.5	317	3 US-08-870-511-4	Sequence 4, Appli
33	43	93.5	317	3 US-08-387-805-2	Sequence 6, Appli
34	43	93.5	317	4 US-09-353-099-6	Sequence 6, Appli
35	43	93.5	317	4 US-09-868-552-43	Sequence 43, Appli
36	43	93.5	317	4 US-09-868-552-44	Sequence 44, Appli
37	43	93.5	382	4 US-09-868-552-2	Sequence 2, Appli
38	43	93.5	382	4 US-09-868-552-4	Sequence 4, Appli
39	43	93.5	382	4 US-09-868-552-6	Sequence 6, Appli
40	43	93.5	382	4 US-09-868-552-8	Sequence 8, Appli
41	43	93.5	382	4 US-09-868-552-10	Sequence 10, Appli
42	43	93.5	382	4 US-09-868-552-12	Sequence 12, Appli
43	43	93.5	382	4 US-09-868-552-14	Sequence 14, Appli
44	43	93.5	382	4 US-09-868-552-17	Sequence 17, Appli
45	43	93.5	382	4 US-09-868-552-20	Sequence 20, Appli

ALIGNMENTS

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RESULT 1
US-08-671-525B-8
; Sequence 8, Application US/08671525B
; Patent No. 5703220
; GENERAL INFORMATION:
; APPLICANT: Yamada, Tadataka
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
; STREET: P.O. Box 828
; CITY: Bloomfield Hills
; STATE: MI
; COUNTRY: US
; ZIP: 48303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/671,525B
; FILING DATE: June 27, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Deann F.
; REGISTRATION NUMBER: 36693
; REFERENCE/DOCKET NUMBER: 2115-000853DVB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (810)641-1600
; TELEFAX: (810)641-0270
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-671-525B-8
Query Match 100.0%; Score 46; DB 1; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 IAKNKILHS 9
Db 69 IAKNKILHS 77
RESULT 2
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US-08-672-109B-8
; Sequence 8, Application US/08672109B
; Patent No. 5710265
; GENERAL INFORMATION:
; APPLICANT: Yamada, Tadataka
; APPLICANT: Gantz, Ira
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Harness, Dickey & Pierce, P.L.C.
; STREET: P.O. Box 828
; CITY: Bloomfield Hills
; STATE: MI
; COUNTRY: US
; ZIP: 48303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/672,109B
; FILING DATE: June 27, 1996
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Deann F.
; REGISTRATION NUMBER: 36683
; REFERENCE/DOCKET NUMBER: 2115-000853DVC
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (810)641-1600
; TELEFAX: (810)641-0270
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-672-109B-8
Query Match 100.0%; Score 46; DB 1; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 IAKNNKLS 9
DB 69 IAKNNKLS 77
RESULT 3
US-08-842-045-8
; Sequence 8, Application US/08842045
; Patent No. 5817787
; GENERAL INFORMATION:
; APPLICANT: Yamada, Tadataka
; APPLICANT: Gantz, Ira
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Harness, Dickey & Pierce, P.L.C.
; STREET: P.O. Box 828
; CITY: Bloomfield Hills
; STATE: MI
; COUNTRY: US
; ZIP: 48303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/842,045
; FILING DATE:
; CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Deann F.
; REGISTRATION NUMBER: 36683
; REFERENCE/DOCKET NUMBER: 2115-000853DVE
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (810)641-1600
; TELEFAX: (810)641-0270
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-842-045-8
Query Match 100.0%; Score 46; DB 2; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 IAKNNKLS 9
DB 69 IAKNNKLS 77
RESULT 4
US-08-842-238-8
; Sequence 8, Application US/08842238
; Patent No. 5869257
; GENERAL INFORMATION:
; APPLICANT: Yamada, Tadataka
; APPLICANT: Gantz, Ira
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Harness, Dickey & Pierce, P.L.C.
; STREET: P.O. Box 828
; CITY: Bloomfield Hills
; STATE: MI
; COUNTRY: US
; ZIP: 48303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/842,238
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Deann F.
; REGISTRATION NUMBER: 36683
; REFERENCE/DOCKET NUMBER: 2115-000853DVD
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (810)641-1600
; TELEFAX: (810)641-0270
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-842-238-8
Query Match 100.0%; Score 46; DB 2; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 IAKNNKLS 9
DB 69 IAKNNKLS 77

RESULT 5
US-08-662-560-2
; Sequence 2, Application US/08662560
; Patent No. 5908609
; GENERAL INFORMATION:
; APPLICANT: Lee, Frank
; APPLICANT: Huzar, Dennis
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS
; TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10036/2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: IBM Compatible
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/662,560
; FILING DATE: 10-JUN-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7853-060
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-08-662-560-2

Query Match 100.0%; Score 46; DB 2; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKKNKLS 9
Db 69 IAKKNKLS 77

RESULT 6
US-08-780-749A-2
; Sequence 2, Application US/08780749A
; Patent No. 5932779
; GENERAL INFORMATION:
; APPLICANT: Lee, Frank
; APPLICANT: Huzar, Dennis
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS
; TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York

COUNTRY: USA
ZIP: 10036/2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/780,749A
FILING DATE: 08-JAN-1997
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Laura A. Coruzzi
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-780-749A-2

Query Match 100.0%; Score 46; DB 2; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKKNKLS 9
Db 69 IAKKNKLS 77

RESULT 7
US-08-780-749A-6
; Sequence 6, Application US/08780749A
; Patent No. 5932779
; GENERAL INFORMATION:
; APPLICANT: Lee, Frank
; APPLICANT: Huzar, Dennis
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS
; TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036/2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/780,749A
; FILING DATE: 08-JAN-1997
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Laura A. Coruzzi
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7853-064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-780-749A-6

Query Match 100.0%; Score 46; DB 2; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKNKILHS 9
|||||
Db 69 IAKNKILHS 77

RESULT 8
US-08-706-281A-16
Sequence 16, Application US/08706281A
Patent No. 6100048
GENERAL INFORMATION:
APPLICANT: Cone, Roger D
APPLICANT: Boston, Bruce A
APPLICANT: Keasterton, Robert A
APPLICANT: Lu, Dongxi
APPLICANT: Chen, Wendiao
TITLE OF INVENTION: Methods and Reagents for Discovering and
TITLE OF INVENTION: Using Mammalian Melanocortin Receptor Agonists and Antagonists
TITLE OF INVENTION: To Modulate Feeding Behavior in Animals
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/706,281A
FILING DATE: 04-SEP-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: No. 6100048nan, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 96,886
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
TELEFAX: 312-913-0002
TELEX:
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-706-281A-16

Query Match 100.0%; Score 46; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKNKILHS 9
|||||
Db 69 IAKNKILHS 77

RESULT 9
US-08-629-335B-8
Sequence 8, Application US/08629335B
Patent No. 611975
GENERAL INFORMATION:
APPLICANT: Yamada, Tadataka
APPLICANT: Gantz, Ira
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
STREET: P.O. Box 828
CITY: Bloomfield Hills
STATE: MI
COUNTRY: US
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/629,335B
FILING DATE: July 23, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Smith, Dean F.
REGISTRATION NUMBER: 36683
REFERENCE/DOCKET NUMBER: 2115-000853DVA
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810)641-1600
TELEFAX: (810)641-0270
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 332 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-629-335B-8

Query Match 100.0%; Score 46; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKNKILHS 9
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Db 69 IAKNKILHS 77

RESULT 10
US-09-097-231-16
Sequence 16, Application US/09097231
Patent No. 6278038
GENERAL INFORMATION:
APPLICANT: Cone, Roger D
APPLICANT: Chen, Wendiao
APPLICANT: low, Malcolm J
TITLE OF INVENTION: Mammalian Melanocortin Receptor and Uses
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/097,231

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; FILING DATE: 12-Jun-1998
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
;   NAME: No. 627803shan, Kevin E
;   REGISTRATION NUMBER: 35,303
;   REFERENCE/DOCKET NUMBER: 96,886-C
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 312-913-0001
;   TELEFAX: 312-913-0002
;   TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 16:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 332 amino acids
;     TYPE: amino acid
;     TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-097-231-16

Query Match          100.0%; Score 46; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 IAKKNKILHS 9
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Db 69 IAKKNKILHS 77

RESULT 11
US-08-870-511-2
; Sequence 2, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;   APPLICANT: Lee, Frank
;   APPLICANT: Huzar, Dennis
;   APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
; TITLE OF INVENTION: REGULATION OF BODY WEIGHT
; FILE REFERENCE: 7853-083
; CURRENT APPLICATION NUMBER: US/08/870,511
; CURRENT FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-870-511-2

Query Match          100.0%; Score 46; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 IAKKNKILHS 9
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Db 69 IAKKNKILHS 77

RESULT 12
US-08-870-511-6
; Sequence 6, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;   APPLICANT: Lee, Frank
;   APPLICANT: Huzar, Dennis
;   APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
; TITLE OF INVENTION: REGULATION OF BODY WEIGHT
; FILE REFERENCE: 7853-083
; CURRENT APPLICATION NUMBER: US/08/870,511
; CURRENT FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 45
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; LENGTH: 332
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US-08-870-511-6
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; ORGANISM: Homo sapiens
US-08-870-511-6

Query Match          100.0%; Score 46; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 IAKKNKILHS 9
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Db 69 IAKKNKILHS 77

RESULT 13
US-08-870-511-8
; Sequence 8, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;   APPLICANT: Lee, Frank
;   APPLICANT: Huzar, Dennis
;   APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
; TITLE OF INVENTION: REGULATION OF BODY WEIGHT
; FILE REFERENCE: 7853-083
; CURRENT APPLICATION NUMBER: US/08/870,511
; CURRENT FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-870-511-8

Query Match          100.0%; Score 46; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 IAKKNKILHS 9
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Db 69 IAKKNKILHS 77

RESULT 14
US-08-870-511-10
; Sequence 10, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;   APPLICANT: Lee, Frank
;   APPLICANT: Huzar, Dennis
;   APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
; TITLE OF INVENTION: REGULATION OF BODY WEIGHT
; FILE REFERENCE: 7853-083
; CURRENT APPLICATION NUMBER: US/08/870,511
; CURRENT FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-870-511-10

Query Match          100.0%; Score 46; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 IAKKNKILHS 9
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Db 69 IAKKNKILHS 77
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; Sequence 12, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
; APPLICANT: Lee, Frank
; APPLICANT: Huszar, Dennis
; APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
; FILE REFERENCE: 7853-083
; CURRENT APPLICATION NUMBER: US/08/870,511
; CURRENT FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-870-511-12

Query Match          100.0%; Score 46; DB 3; Length 332;
Best local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 IAKNKLIHS 9
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Db      69 IAKNKLIHS 77
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Search completed: January 3, 2005, 18:07:20
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using SW model

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77.285 Million cell updates/sec

Title: US-09-884-211b-4_COPY_69_77

Perfect score: 46
Sequence: 1 IAKNKILHS 9

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Searched: 1599051 seqs, 359727711 residues

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Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

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- 19: /cgn2_6/ptodata/2/pubppa/US60_NEW_PUB.pep:*
- 20: /cgn2_6/ptodata/2/pubppa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	100.0	311	17	US-10-834-485-3
2	46	100.0	311	17	US-10-816-304-3
3	46	100.0	332	10	US-09-876-252-74
4	46	100.0	332	10	US-09-876-252-136
5	46	100.0	332	10	US-09-884-211A-3
6	46	100.0	332	10	US-09-884-211A-4
7	46	100.0	332	10	US-09-910-180-2
8	46	100.0	332	14	US-10-226-594-4
9	46	100.0	332	14	US-10-207-330-6
10	46	100.0	332	14	US-10-207-330-9
11	46	100.0	332	14	US-10-288-160-16
12	46	100.0	332	14	US-10-074-754-2
13	46	100.0	332	14	US-10-225-567A-158

14	46	100.0	332	14	US-10-373-355-2	Sequence 2, Appl
15	46	100.0	332	14	US-10-318-661-27	Sequence 27, Appl
16	46	100.0	332	14	US-10-413-752-2	Sequence 2, Appl
17	46	100.0	332	14	US-10-413-752-6	Sequence 6, Appl
18	46	100.0	332	14	US-10-417-820A-74	Sequence 74, Appl
19	46	100.0	332	14	US-10-417-820A-136	Sequence 136, Appl
20	46	100.0	332	16	US-10-723-955-74	Sequence 136, Appl
21	46	100.0	332	16	US-10-723-955-136	Sequence 136, Appl
22	43	93.5	30	15	US-10-296-734-1116	Sequence 1116, Ap
23	43	93.5	30	15	US-10-296-734-1118	Sequence 1118, Ap
24	43	93.5	317	13	US-10-052-545-2	Sequence 2, Appl
25	43	93.5	317	14	US-10-226-594-1	Sequence 1, Appl
26	43	93.5	317	14	US-10-288-160-6	Sequence 6, Appl
27	43	93.5	317	14	US-10-225-567A-162	Sequence 162, App
28	43	93.5	317	14	US-10-413-752-4	Sequence 4, Appl
29	43	93.5	317	14	US-10-353-690-60	Sequence 60, Appl
30	43	93.5	317	14	US-10-164-717-6	Sequence 6, Appl
31	43	93.5	317	15	US-10-296-734-822	Sequence 822, Appl
32	43	93.5	317	16	US-10-322-281-166	Sequence 166, App
33	43	93.5	382	14	US-10-164-717-7	Sequence 7, Appl
34	43	93.5	388	14	US-10-164-717-2	Sequence 2, Appl
35	43	93.5	388	14	US-10-164-717-3	Sequence 3, Appl
36	43	93.5	398	14	US-10-164-717-4	Sequence 4, Appl
37	43	93.5	398	14	US-10-164-717-5	Sequence 5, Appl
38	43	93.5	5546	15	US-10-296-734-1210	Sequence 1210, Ap
39	42	91.3	9	10	US-09-910-180-7	Sequence 7, Appl
40	42	91.3	325	13	US-10-052-545-16	Sequence 16, Appl
41	42	91.3	325	14	US-10-288-160-18	Sequence 18, Appl
42	42	91.3	325	14	US-10-256-089-2	Sequence 2, Appl
43	42	91.3	325	14	US-10-225-567A-160	Sequence 160, Appl
44	42	91.3	325	14	US-10-369-022-40	Sequence 40, Appl
45	39	84.8	315	14	US-10-288-160-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
US-10-834-485-3
; Sequence 3, Application US/10834485
; Publication No. US20040235030A1
; GENERAL INFORMATION:
; APPLICANT: Rothschild, Max F.
; APPLICANT: Larsen, Nellis
; TITLE OF INVENTION: Melanocortin-4 Receptor Gene and Use as a Genetic Marker for Pat
; FILE REFERENCE: ISURF 2413
; CURRENT APPLICATION NUMBER: US/10/834,485
; CURRENT FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: US/09/380,419C
; PRIOR FILING DATE: 2000-07-24
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 311
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (298)..(298)
; OTHER INFORMATION: "X" can be any amino acid
US-10-834-485-3

Query Match 100.0%; Score 46; DB 17; Length 311;
Best local similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKNKILHS 9
Db 27 IAKNKILHS 35

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RESULT 2
US-10-816-304-3
; Sequence 3, Application US/10816304
; Publication No. US20040261138A1
; GENERAL INFORMATION:
; APPLICANT: Rothschild, Max
; APPLICANT: Emmett, Rebecca
; APPLICANT: Kim, Kwan
; TITLE OF INVENTION: Genetic Markers for Improved Meat Characteristics in
; FILE REFERENCE: ISURF 2697
; CURRENT APPLICATION NUMBER: US/10/816,304
; PRIOR FILING DATE: 2004-04-01
; PRIOR APPLICATION NUMBER: US/09/538,165
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 3
; LENGTH: 311
; TYPE: PRT
; ORGANISM: Homo sapiens
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; NAME/KEY: misc.feature
; LOCATION: (298)..(298)
; OTHER INFORMATION: "Xaa" can be any amino acid
US-10-816-304-3
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Query Match      100.0%; Score 46; DB 17; Length 311;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB      27 IAKKNKLHS 35
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RESULT 3
US-09-876-252-74
; Sequence 74, Application US/09876252
; Publication No. US20030018182A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Lin, I-Lin
; APPLICANT: Dang, Huong T.
; APPLICANT: Chen, Ruoping
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Rec
; FILE REFERENCE: AREN-0054
; CURRENT APPLICATION NUMBER: US/09/876,252
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 09/416,760
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; PRIOR APPLICATION NUMBER: 60/110,060
; PRIOR FILING DATE: 1998-11-27
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,852
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/109,213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/123,944
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,945
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,948
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,951
; PRIOR FILING DATE: 1999-03-12
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; PRIOR APPLICATION NUMBER: 60/123,946
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,949
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/152,524
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/151,114
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: 60/108,029
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: 60/136,436
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,439
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; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/137,131
; PRIOR FILING DATE: 1999-05-28
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; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: 60/136,437
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/156,555
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,634
; PRIOR FILING DATE: 1999-09-29
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; PRIOR FILING DATE: 1999-09-29
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; PRIOR APPLICATION NUMBER: 60/157,282
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/156,633
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 74
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-876-252-74
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Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 IAKKNKLHS 9
DB      69 IAKKNKLHS 77
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US-09-876-252-136
; Sequence 136, Application US/09876252
; Publication No. US20030018182A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Lin, I-Lin
; APPLICANT: Dang, Huong T.
; APPLICANT: Chen, Ruoping
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Re
; FILE REFERENCE: AREN-0054
; CURRENT APPLICATION NUMBER: US/09/876,252
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; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 09/416,760
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
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; PRIOR FILING DATE: 1998-11-27
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; PRIOR FILING DATE: 1998-11-20
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; PRIOR FILING DATE: 1999-03-12
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; PRIOR APPLICATION NUMBER: 60/123,948
; PRIOR FILING DATE: 1999-03-12
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; PRIOR FILING DATE: 1999-03-12
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US-09-876-252-136

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Query Match      100.0%; Score 46; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Oy      1 IAKKNKILHS 9
        |||||
Db      69 IAKKNKILHS 77

```

```

RESULT 5
US-09-884-211A-3
; Sequence 3, Application US/09884211A
; Publication No. US20030032791A1
; GENERAL INFORMATION:
; APPLICANT: Alan et. al.
; TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
; TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
; TITLE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
; FILE REFERENCE: PC10743A
; CURRENT APPLICATION NUMBER: US/09/884,211A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: 60/213,909
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Feline MCR protein Sequence
US-09-884-211A-3

```

```

Query Match      100.0%; Score 46; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Oy      1 IAKKNKILHS 9
        |||||
Db      69 IAKKNKILHS 77

```

```

RESULT 6
US-09-884-211A-4
; Sequence 4, Application US/09884211A
; Publication No. US20030032791A1
; GENERAL INFORMATION:
; APPLICANT: Alan et. al.
; TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
; TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
; TITLE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
; FILE REFERENCE: PC10743A
; CURRENT APPLICATION NUMBER: US/09/884,211A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: 60/213,909
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Canine MCR protein Sequence
US-09-884-211A-4

```

```

Query Match      100.0%; Score 46; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Oy      1 IAKKNKILHS 9
        |||||
Db      69 IAKKNKILHS 77

```

```

RESULT 7
US-09-910-180-2
; Sequence 2, Application US/09910180
; Publication No. US20030082678A1
; GENERAL INFORMATION:
; APPLICANT: Heitung, Hansen

```

```

; APPLICANT: Smith, Dennis
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REGULATING BODY WEIGHT IN BOVINE SPECIES
; FILE REFERENCE: P-12621
; CURRENT APPLICATION NUMBER: US/09/910,180
; CURRENT FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Bovine
US-09-910-180-2
```

```

Query Match          100.0%; Score 46; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 IAKKNKILHS 9
Db      69 IAKKNKILHS 77
```

```

RESULT 8
US-10-226-594-4
; Sequence 4, Application US/10226594
; Publication No. US20030017966A1
; GENERAL INFORMATION:
; APPLICANT: Duman, Ronald
; TITLE OF INVENTION: MC-4R AS A TARGET FOR THE IDENTIFICATION OF COMPOUNDS
; FILE REFERENCE: 07334-101001
; CURRENT APPLICATION NUMBER: US/10/226,594
; CURRENT FILING DATE: 2002-08-23
; PRIOR APPLICATION NUMBER: US/09/385,763
; PRIOR FILING DATE: 1999-08-30
; PRIOR APPLICATION NUMBER: US 60/099,104
; PRIOR FILING DATE: 1998-09-03
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-226-594-4
```

```

Query Match          100.0%; Score 46; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 IAKKNKILHS 9
Db      69 IAKKNKILHS 77
```

```

RESULT 9
US-10-207-330-6
; Sequence 6, Application US/10207330
; Publication No. US20030018169A1
; GENERAL INFORMATION:
; APPLICANT: Kochendoerfer, Gerd G
; APPLICANT: Hunter, Christie L
; APPLICANT: Kent, Stephen B.H.
; APPLICANT: Botli, Paolo
; APPLICANT: Gryphon Sciences
; TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
; FILE REFERENCE: grfn-028/02WO
; CURRENT APPLICATION NUMBER: US/10/207,330
; CURRENT FILING DATE: 2002-07-30
; PRIOR APPLICATION NUMBER: US/09/384,302
; PRIOR FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: 09/144,964
```

```

; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 09/263,971
; PRIOR FILING DATE: 1999-03-05
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-207-330-6
```

```

Query Match          100.0%; Score 46; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 IAKKNKILHS 9
Db      69 IAKKNKILHS 77
```

```

RESULT 10
US-10-207-330-9
; Sequence 9, Application US/10207330
; Publication No. US20030018169A1
; GENERAL INFORMATION:
; APPLICANT: Kochendoerfer, Gerd G
; APPLICANT: Hunter, Christie L
; APPLICANT: Kent, Stephen B.H.
; APPLICANT: Botli, Paolo
; APPLICANT: Gryphon Sciences
; TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
; FILE REFERENCE: grfn-028/02WO
; CURRENT APPLICATION NUMBER: US/10/207,330
; CURRENT FILING DATE: 2002-07-30
; PRIOR APPLICATION NUMBER: US/09/384,302
; PRIOR FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: 09/144,964
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 09/263,971
; PRIOR FILING DATE: 1999-03-05
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-207-330-9
```

```

Query Match          100.0%; Score 46; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 IAKKNKILHS 9
Db      69 IAKKNKILHS 77
```

```

RESULT 11
US-10-288-160-16
; Sequence 16, Application US/10288160
; Publication No. US20030105024A1
; GENERAL INFORMATION:
; APPLICANT: Core, Roger D
; APPLICANT: Fan, Wei
; APPLICANT: Boston, Bruce A
; APPLICANT: Keesterton, Robert A
; APPLICANT: Lu, Dongxai
; APPLICANT: Chen, Wenbiao
```

```

; TITLE OF INVENTION: Methods and Reagents for Discovering and
; Using Mammalian Melanocortin Receptor Agonists and Antagoni
; to Modulate Feeding Behavior in Animals
;
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60606
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/288,160
; FILING DATE: 05-No. US20030105024A1-2002
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/706,281
; FILING DATE: 04-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: No. US20030105024A1nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 96,886
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-913-0001
; TELEFAX: 312-913-0002
; TELEX: <Unknown>
;
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
;
; US-10-288-160-16
;
Query Match          100.0%; Score 46; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKKNKILHS 9
Db 69 IAKKNKILHS 77

RESULT 12
; US-10-074-754-2
; Sequence 2, Application US/10074754
; Publication No. US20030113263A1
; GENERAL INFORMATION:
; APPLICANT: Marks, Daniel L.
; TITLE OF INVENTION: Methods and Reagents for Discovering and Using
; TITLE OF INVENTION: Mammalian Melanocortin Receptor Antagonists to Treat
; FILE REFERENCE: 96-886
; CURRENT APPLICATION NUMBER: US/10/074,754
; CURRENT FILING DATE: 2002-02-13
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patentin Ver. 2.0
;
; SEQ ID NO 2
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
;
; US-10-074-754-2
;
Query Match          100.0%; Score 46; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY 1 IAKKNKILHS 9
Db 69 IAKKNKILHS 77

RESULT 13
; US-10-225-567A-158
; Sequence 158, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burner, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTOR
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: Patentin version 3.1
;
; SEQ ID NO 158
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
;
; US-10-225-567A-158
;
Query Match          100.0%; Score 46; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKKNKILHS 9
Db 69 IAKKNKILHS 77

RESULT 14
; US-10-373-355-2
; Sequence 2, Application US/10373355
; Publication No. US20030166009A1
; GENERAL INFORMATION:
; APPLICANT: MacNeil, Douglas J.
; APPLICANT: Weinberg, David H.
; TITLE OF INVENTION: DNA MOLECULES ENCODING THE MELANOCORTIN
; TITLE OF INVENTION: 4 RECEPTOR PROTEIN FROM RHESUS MONKEY
; FILE REFERENCE: 20190P
; CURRENT APPLICATION NUMBER: US/10/373,355
; CURRENT FILING DATE: 2003-02-25
; PRIOR APPLICATION NUMBER: US/09/831,206
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: PCT/US99/25767
; PRIOR FILING DATE: 1999-11-05
; PRIOR APPLICATION NUMBER: 60/107,721
; PRIOR FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
;
; SEQ ID NO 2
; LENGTH: 332
; TYPE: PRT
; ORGANISM: rhesus monkey (Macaca mulatta)
;
; US-10-373-355-2
;
Query Match          100.0%; Score 46; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

RESULT 15

US-10-318-661-27
; Sequence 27, Application US/10318661
; Publication No. US20030167476A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Bruce R.
; TITLE OF INVENTION: Selective Target Cell Activation By
; TITLE OF INVENTION: Expression of A G Protein-Coupled Receptor Activated
; TITLE OF INVENTION: Superiorly By Synthetic Ligand
; FILE REFERENCE: UCAL-049CIP2
; CURRENT APPLICATION NUMBER: US/10/318,661
; CURRENT FILING DATE: 2003-05-05
; PRIOR APPLICATION NUMBER: US 09/341,446
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US97/05334
; PRIOR FILING DATE: 1997-03-25
; PRIOR APPLICATION NUMBER: US 08/622,348
; PRIOR FILING DATE: 1996-03-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-318-661-27

Query Match 100.0%; Score 46; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKKNKILHS 9
|||
Db 69 IAKKNKILHS 77

Search completed: January 3, 2005, 18:26:55
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